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Date: September 13, 1999

WBAM Docket No.: KN71020-37 (3345-2210)

TO: THE COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

Sir:

With reference to the filing in the United States Patent and Trademark Office of an application for patent in the name(s) of: **Brian J. Roberts and David B. Petch** entitled: **TICKET DISPENSING DEVICE, INSTALLATION AND DISPLAYS.**

X This is an application of a small entity under 37 CFR 1.9(f) and the amounts shown in parentheses below have been employed in calculating the fee.

Small Entity Verified Statement    is enclosed was filed in the parent application and is still proper.  
The following are enclosed:

X Specification  
X Claim(s) 25 (including 4 independent claims  
This application contains a multiple dependent claim.  
X Oath or Declaration and Power of Attorney  
X 3 Sheet(s) of Drawings

X Our check        for \$464.00, calculated as follows:

Basic Fee - \$760.00 (\$380.00) .....	\$380.00
Total Number of Claims in excess of 20 at \$18. (\$9.) each	\$45.00
Number of Independent Claims in excess of 3 at \$78. (\$39.) each	39.00
Total Filing Fee	\$ 464.00

Assignment Recording Fee \$40.00

X Order Form for Recording Assignment

   Certified copy of each of the following application(s) to substantiate the claim(s) for priority made in the Declaration:

Application No.    filed    in

Please charge any additional fees required for the filing of this application or credit any overpayment to Deposit Account No. 05-0297. A duplicate copy of this letter is enclosed.

EXPRESS MAIL

Respectfully submitted,

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I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and

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Ronald Marrero

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Ronald Marrero  
(Signature of person mailing paper or fee)

WHITMAN BREED ABBOTT & MORGAN

Attorneys for Applicant(s)

By: Gregor N. Neff  
Gregor N. Neff, Esq.  
Reg. No.: 20,596

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS**  
**(37 CFR 1.9(f) and 1.27(c)) - SMALL BUSINESS CONCERN**

I, the undersigned, hereby declare that I am

         the owner of the small business concern identified below:

  X   an official of the small business concern empowered to act on behalf of the  
concern identified below:

NAME OF CONCERN      **ON POINT TECHNOLOGY SYSTEMS**

ADDRESS OF CONCERN   **1370 San Marcos Blvd-San Marcos, CA 92126**

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled **TICKET DISPENSING DEVICE, INSTALLATION AND DISPLAYS** by inventor(s) **Brian J. Roberts and David B. Petch**, described in

  X   the specification filed herewith.

         application serial no.         , filed         .

         patent no.         , issued         .

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

\*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities (37 CFR 1.27).

FULL  
NAME

ADDRESS

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

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I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING

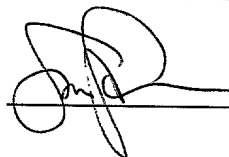
SAM W STEARMAN, CFO

TITLE OF PERSON

(if other than owner)

ADDRESS OF PERSON SIGNING 1370 San Marcos Blvd., San Marcos, CA 92069

SIGNATURE



DATE 9/8/99

PATENT  
3345-2210  
(007120-0037)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
APPLICATION FOR LETTERS PATENT

Applicants : Brian J. Roberts and David B. Petch  
Title : TICKET DISPENSING DEVICE,  
INSTALLATION AND DISPLAYS  
Claims : 25  
Sheets of Drawings : 3

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This application is a continuation in part of U.S. Patent Application Ser. No. 09/238,682, filed January 26, 1999, of Ser. No. 09/128,406, filed August 3, 1998 and of Ser. No. 09/060,423, filed April 14, 1998 and U.S. Patent Application Ser. No. filed August 30, 1999.

This invention relates to ticket dispensers, and particularly to dispensers of lottery tickets joined together in strips in which the tickets are delineated from one another by lines of weakness. In particular, the invention relates to such dispensers from which customers can see and select lottery tickets, and the tickets are dispensed by a store clerk or the customer.

One of the problems with prior lottery ticket dispensers of the type described above is that the dispensers take up a great deal of counter space and thus are in the way if they are placed on or near check-out counters in stores.

Another problem with such dispensers is that, when they are stacked on top of one another, they tend to shift and fall off. Moreover, it is difficult to see the tickets in the dispensers at the bottom of the stack because the customer's view is blocked by the upper dispensers in the stack because the upper dispensers in the stack block the customer's view.

Another problem with prior lottery ticket dispensers of the type described above is that the dispensers do not control the inventory of lottery tickets in the dispenser or account for the tickets sold during the dispensing process.

It is an object of the present invention to provide dispensing devices, installations and displays that eliminate or alleviate the foregoing problems.

In particular, it is an object of the invention to provide a ticket dispenser which is of the size and configuration to make it a welcome addition to a check-out counter.

Another object of the invention is to provide a rack or cabinet for stacking relatively short, wide ticket dispensers; a rack or cabinet that holds the dispensers in a stable stack structure.

A further object of the invention is to provide such a rack or cabinet which laterally staggers the positions of the dispensers relative to one another so that the lower dispensers in the stack are more visible.

It also is an object of the invention to provide a drive and separating module which can be easily mounted in any of the dispenser housings with a minimum of assembly, labor, tools and hardware.

It is a further object of the invention to provide such structures which are robust, relatively inexpensive to manufacture, and relatively easy and efficient to use.

In accordance with the present invention, the foregoing objects are met by the provision of a ticket dispenser housing which has a hinged transparent cover forming the top and one side wall of the housing, and another hinged cover forming the opposite or front wall of the housing, so that the transparent cover can be lifted to give access to the ticket storage area, and the front cover can be rotated away to give access to the dispensing portion of the housing.

Another aspect of the invention is the provision of a rack or cabinet to support a plurality of relatively low and wide dispensers on top of one another so as to keep them stable. It is preferred that the positions of the dispenser housing be staggered laterally so that lower ones of the housing are more visible than if the housings were stacked vertically with respect to one another. It also is preferred that the width of dispensers at the top be less than that of dispensers below so as to align one end of each dispenser vertically with the corresponding ends of the other dispensers.

A check-out counter dispenser is provided which not only occupies relatively little check-out counter space, but also serves a useful function which makes it a desirable addition to the check-out counter. A relatively tall dispenser is provided in which space for storage of the tickets is located underneath a drive module. The stack of tickets to be dispensed is stored at a substantial angle from horizontal. The housing thus has a relatively small footprint and takes up relatively little countertop space.

Preferably, the top of the housing is flat and extends to a height making it a convenient surface upon which a customer can write checks. The tickets to be dispensed are visible through the transparent cover of the housing immediately below the flat top where the check is being written. This increases exposure of the tickets to the customers and promotes sales.

Preferably, each of the different sizes and shapes of housing uses a single a drive and separation module which fits into the housing easily and quickly with a minimum of installation labor and hardware being required. The module contains a drive motor and drive rollers for a plurality of different channels, each adapted to drive one strip of tickets. A rotary helical separator mechanism is provided, with a drive motor to rotate it, so as to separate one or more tickets from each strip.

Preferably, the dispensing of the proper number and type of tickets is controlled by a clerk in the store operating a point-of-sale terminal or a computer, preferably a small palm top or similar computer with a keypad. Optionally, the actions performed by the clerk can also be performed by the customer and such computer controller can be mounted in such a location or position to allow dual use by both the clerk and/or the customer. E.g., the computer can be mounted on a swivel mounting.

The foregoing and other objects and advantage of the invention will be set forth in or apparent from the following description and drawings.

**IN THE DRAWINGS:**

Fig. 1 is perspective, partially schematic view of a countertop ticket dispenser installation on check-out counter in a store;

Fig. 2 is a cross-sectional, taken along line 2-2 of Fig. 1, partially broken away, and showing the housing open instead of closed as in Fig. 1;

Fig. 3 is a front elevation view, partially broken away, of the dispenser shown in Figures 1 and 2;

Fig. 4 is a cross-sectional, partially schematic side elevation of the drive and separation module used in the dispenser of Figures 1 through 3, as well as in other dispensers described herein;

Fig. 5 is perspective view of a relatively short but wide countertop dispenser in which the tickets are stored laterally of the drive and separation module;

Fig. 6 is a cross-sectional, partially schematic view of the dispenser shown in Fig. 5;

Fig. 7 is a partially broken away front elevation view of the dispenser shown in Figures 5 and 6;

Fig. 8 is a side elevation view of a display rack for multiple ticket dispensers of the type shown in Figures 5 through 7;

Fig. 9 is a side elevation view of an alternative display of ticket dispensers; and

Fig. 10 is a rear elevation view as viewed in the direction of the arrow 136 in Figure 9.



## SMALL FOOTPRINT DISPENSER

Fig. 1 shows a dispenser 20 mounted on a check-out counter 22 with side rails 24 and 26 in a retail store or supermarket checkout lane. The unit 20 has a particularly small footprint, even though it dispenses instant winner scratch-off type lottery tickets from four different channels and from four relatively wide or long stacks of tickets 42 (See Figure 2).

The unit 20 includes a pair of side panels 28 made of cast aluminum or other strong, secure material, with a curved portion 29 protruding out over the side-rail 24 of the check-out counter 22, or flush with the front of the counter depending on the installation. The rail 24 is on the side of the counter that is nearest to the normal position of the customer when having his or her purchases checked-out.

The check-out stand includes a point-of-sale terminal or computer 33 with a keyboard 35, or a hand-held computer 37 with a keypad 39 and a display 41. Alternatively, terminal 33 can be an on-line lottery game terminal such as those used to sell lotto and similar games. Any of these input devices can be used to select the type of ticket and quantity of tickets desired by the customer, as described more fully in the disclosure in the above-identified co-pending U.S. patent applications.

The dispensing unit 20 also includes a hinged transparent cover 34 (See Figure 2) which is hinged to the housing structure at 46 so as to fold to the left and away from the interior of the dispenser housing to give access to the interior for replenishing tickets, service, etc.

The housing of the unit 20 also includes hinged front wall structure 30 which has a pair of side panels each having a forward edge 43 and a sloping edge 45. The cover 34 is hinged to the housing structure at 40.

The end plates 28 have an angular reinforcing rib 32 along the rear edge of the plate. The edges 45 and 43 of the front cover 30 abut against the ribs 32 when the cover 30 is closed.

When the cover 34 is closed it is seated against a ledge 48 formed around the inner periphery of each of the end plates 28.

Mounted in the housing is a drive and separation module 38 which pulls a strip of tickets from a supply, separates the number of tickets desired from the strip, and issues them through an outlet opening to the right, as shown in Figure 2.

Four fan-fold ticket stacks 42 each consisting of a continuous strip of scratch-off lottery tickets or similar tickets is stored in the housing at a location partially below the drive module 38 so as to help minimize the footprint of the dispenser.

Additionally, the footprint is minimized by storing the ticket stacks 42 at a substantial angle to horizontal. This accomplished by use of a curved support 44 at one end of each stack, and a roller 50 for supporting each stack. The support 44, in essence, serves as a bottom wall for the dispenser housing.

A ticket strip is taken off of the left-hand face of the ticket stack 42, around the roller 50, and upwardly past the upper edge of the stack, and over a curved guide 52 into an inlet opening 58 (See Figure 4) of the drive unit 38.

As it is shown in Figures 1 and 2, the top 34 of the housing is flat. Since the housing extends vertically by a substantial distance, this flat surface is very convenient to the customer standing at the check-out counter while having his or her purchases checked-out to write on. In particular, it can be used as a check-writing stand.

Preferably, the cover 30 can be locked in place. Preferably, an edge of the cover 30 overlies the front edge of the cover 34 so as to lock the housing and prevent unauthorized access.

Figure 3 is a front elevation view of the front cover 30 showing its rear wall 33 with a thin slot extending across most of the width of the housing, through which tickets can be dispensed.

Referring again to Figure 1, four strips of tickets 47, 49, 51 and 53 are stored in the housing. The transparent cover allows the customer to clearly see the tickets in the four channels of the dispenser mechanism, whether or not the top is used as a writing surface.

Thus, because of its relatively small footprint, the unit 20 is less obtrusive than prior countertop powered ticket dispensers. Moreover, it is a welcome addition to the check-out counter since its top provides a convenient check-writing surface for the customers' use.

#### DRIVE/SEPARATOR MODULE

Drive/separator module 38 is shown schematically in Figure 4. The module 38 includes a housing 55 with a plurality of inlet openings 58 (Fig. 5), one for each channel of the dispenser. Four sets of input drive rollers 62 and four sets of output drive rollers 64 are provided. Tickets are issued through four outlet slots 60 (See Fig. 7).

As it is described in greater detail in the above-identified co-pending patent applications, a separator mechanism is provided. It is formed by two halves 66 and 68 of a housing which forms a cylindrical interior in which rotates a set of helical separator blades, one for every channel, extending from a single shaft. A drive system is indicated by the dashed-circle 70. It includes a single drive motor for selectively driving the drive rollers 62 and 64, and a motor to rotate the helical

separator 72 to separate tickets from the ticket strips. Further details of this unit will not be described here because of the complete description appearing in the above-identified co-pending patent applications.

### LOW AND FLAT COUNTERTOP DISPENSER

Figures 5 through 10 and particularly Figures 5 and 6, show a relatively low flat dispenser structure 72.

Whereas the aspect ratio, that is, the ratio of the height H to length L of the dispensing unit 20 shown in Figure 1 is around 1 or greater, the ratio of H to L in the units 72 is substantially less than 1. The units 5 and 6 can be used in areas near the countertop of a check-out area or another counter in a store where there is more space and a larger footprint for the dispenser is acceptable.

The dispenser 72 includes a bottom wall 78, a pair of metal side walls 74 and 76 extending upwardly from to the bottom wall 78, a hinged transparent cover 86 which is hinged to the rear edge of the bottom wall 78 by means of a hinge indicated schematically at 88 in Figs 5 and 6. The hinged cover 86 is curved in the rear portion so it forms a curved rear wall for the housing, as well as a top cover for the housing.

The housing of the dispensing unit 72 also has a hinged front cover 80 which folds down, as shown in Fig. 6 to allow ready access to the drive module 38. By opening the cover 86, access is given to the interior of the housing for replenishing ticket supplies, etc.

The ticket strip in each of the four channels is pulled back over the top of their respective stacks 92 of tickets and back towards the right where it enters the inlet opening 58 of the drive module 38. By taking this path, the tickets in each strip are very visible to someone viewing the unit from the rear or the left, as it is shown in Figure 6.

As with the unit 20 shown in Figure 1, the front cover 80 can be locked with a key lock (not shown), and this is effective to lock the cover 86 as well.

Figure 8 shows a display rack in which four of the units 72 are stacked one atop the other. The display rack includes vertical members 104 at the four corners of the structure secured to a plurality of horizontal shelves 106, 108, 110 and 112. Preferably, the shelves 106 have an upstanding ridge 101 around the periphery to keep the dispensing units from sliding off.

It should be understood that the display rack is intended to be representative also of a display cabinet which has side walls to further enclose the dispensing units, for better security and/or better appearance.

The vertical members 104 at the corners of the structure can be angles or other suitable [metal] structural members, and the shelves can be similar structural members and attached to the vertical members. Cross-bracing can be provided as needed.

Tickets 100 and 102 are shown after they have been dispensed and are ready for the clerk to grasp and hand to the customer, who normally stands to the left of the display in Figure 8.

### STAGGERED DISPLAY

Figure 9 shows a different embodiment of the dispenser display of the invention. Three dispenser units 114, 116 and 118 like or identical to the dispenser 72 are mounted on shelves 122, 124 and 126 of a rack having vertical structural members 120 and 128. The vertical member 128 is spaced laterally to the right of the left edge of the bottom shelf 126. Each of these shelves, as with the shelves of the unit shown in Figure 8, has a peripheral ridge to minimize the chances of one of the dispensing units falling off of the display.

As shown, the rear walls of each of the units 114 are staggered relative to one another. That is, the rear wall of the unit 116 is recessed to the right as shown in Figure 9 relative to the unit 118, and the rear edge of the unit 114 is similarly staggered to the right relative to both units 116 and 118. The rear edges can be staggered along a line of any shape, but in this case are staggered relative to a sloping straight line 138 in Figure 9.

It also is preferred that each of the three dispensers, 114, 116, and 118 are of different lengths so that the front surfaces of the units will be approximately aligned vertically along a line 131.

The different lengths of the dispenser can be created by adding to the standard length dispenser tray one or more extension pieces of the same length. All extension pieces are identical and secured to one another and/or the standard dispenser tray by means of a mating male and female connector.

This "standard" length dispenser is dispenser 114 shown in Fig. 9. The housing is divided into two sections, one to the left of the vertical line 170, and one to the right of that line. The line 170 is located near the left boundary of the feed and separator module 38. The housings are secured together with tongue-and-groove elements which are force-fitted together, or with another suitable fastening arrangement.

To form the larger dispenser 116, another section 176 of the housing is fastened between the left and right sections, with suitable fastening means, like those used to fasten the right and left sections together.

Similarly, to form the longest housing 118, a second insert 178 is secured between the left section and the insert 176.

By the foregoing construction, the hinged covers, the left section, the right section and the inserts all can be standardized to ensure economy of manufacture.

As it can be seen, the length of the stack 130 in the top dispenser 114 is shorter than the length of the stacks 132 and 134 in the housing 116 and 118, respectively. However, it should be understood that a short stack of a single size could be used in two or more of the dispensers, depending upon the need.

A ticket 133 is shown protruding from the front face of the dispenser 114 ready for a clerk to grasp it to hand to the customer who is standing to the left of the display.

The display shown in Figure 9 is particularly advantageous because it maximizes the viewing area of the rear portions of the dispensers when viewed from an angle such as that indicated by the dashed line 136 in Figure 9.

Figure 10 is a view, partially broken away of the display of Figure 9 taken from the angle indicated by the line 136.

The dispenser 114 contains four strips 148, 150, 152 and 154 of tickets. Similarly, the dispenser 118 at the bottom of the stack has four strips of different tickets 140, 142, 144 and 146.

The middle dispenser 116 has only three strips of tickets 158, 160 and 162. The fourth channel 156 is empty.

As it can be seen, from the angle indicated by the arrow 136, a relatively large area of each of the three dispensers is visible. Also, the staggering of the units makes appear as if there is simply one large display consisting of multiple tickets available to the customer. Thus, the customer does not need to bend over and peer intently at an obscure lower or middle dispenser in a dispenser stack, but can readily see the tickets to choose ones he or she desires. This again facilitates attracting buyers and selling tickets.

It also should be understood that the display rack shown in Figure 9 is intended to be representative of a housing as well which provide more enclosure at

the sides and, perhaps at the top so as to make a more attractive and sturdier display.

The above description of the invention is intended to be illustrative and not limiting. Various changes or modifications in the embodiments described may occur to those skilled in the art. These can be made without departing from the spirit or scope of the invention.



## CLAIMS

1. A ticket dispenser comprising a housing having a bottom wall, a pair of side walls extending upwardly from said bottom wall, a front side wall hinged adjacent its bottom edge to said bottom wall at a first side so as to swing outwardly and downwardly from said side walls, a cover hinged to said bottom wall at a side opposite said first side and shaped to cover said bottom wall with space between said bottom wall and said cover, said space being adapted to contain a plurality of arrays of tickets in strips with individual tickets being delineated from one another by lines of weakness, a powered drive module in said housing said drive module being positioned adjacent said front side wall in a location to receive strips of tickets from said arrays, said module containing drive means for dispensing a predetermined number of tickets from a selected one of said arrays.

2. A ticket dispenser as in Claim 1 in which said space is located laterally from said drive module, and in which the ratio of the height of said housing to the distance between said front side wall and said opposite side of said bottom wall is substantially less than one.

3. A ticket dispenser as in Claim 1 in which said space is located at least partially underneath said drive module and the ratio of the height of said housing to the distance between said front side wall and said opposite side of said bottom wall is around one or greater.

4. A ticket dispenser as in Claim 1 in which said drive module includes a separator mechanism for separating one or more of said tickets from one of said strips before dispensing them.

5. A ticket dispenser as in Claim 1 in which said drive module comprises an enclosure having at least one inlet opening for admitting plural parallel ticket strips into said enclosure, at least one outlet opening for issuing tickets from one of

said strips, a drive motor driving a drive shaft, a plurality of input drive rollers rotatably mounted on a common shaft, selectively operable transmission means for selectively coupling said input drive rollers to said drive shaft for selectively feeding tickets in one of said strips through said module and out through said outlet opening.

6. A ticket dispenser as in Claim 1 in which said cover is at least partially transparent, and said cover forms a curved rear side wall for said enclosure, said housing comprising two halves joined together along a vertical line adjacent the inlet side of said drive module, and at least one housing extension element having bottom, top and side walls secured between said housing halves.

7. A ticket dispenser as in Claim 1 in which said space and said drive module are in superposed relation to one another.

8. A ticket dispenser as in Claim 7 in which said cover has a flat upper surface and said drive module is located above said space.

9. A ticket dispenser as in Claim 7 including a support structure in said housing for holding a ticket strip in the form of a flat stack at a substantial angle with respect to horizontal.

10. A ticket dispensing installation, comprising in combination, a ticket dispenser which has a housing having a bottom wall, a pair of side walls extending upwardly from said bottom wall, a front side wall hinged adjacent its bottom edge to said bottom wall at a first side so as to swing outwardly and downwardly from said side walls, a cover hinged to said bottom wall at a side opposite said first side and shaped to cover said bottom wall with space between said bottom wall and said cover, said space being adapted to contain a plurality of arrays of tickets in strips with individual tickets being delineated from one another by lines of weakness, a drive module in said housing said drive module being positioned

adjacent said front side wall in a location to receive strips of tickets from said arrays, said module containing drive means for dispensing a predetermined number of tickets from a selected one of said arrays, said cover being at least partially transparent to permit viewing of said ticket strips from a vantage point looking towards said opposite side of said bottom, a check-out counter in a store, said dispenser being mounted on said checkout counter with the opposite side of said housing facing the normal customer position at said check-out counter when purchases are being checked-out, and said front side wall facing the normal clerk's position at said check-out counter, the top of said cover being substantially flat to provide a convenient support surface on which to write.

11. A dispensing installation as in Claim 10 in which said space is located at least partially underneath said drive module.

12. A dispensing installation as in Claim 11 including a support structure in said housing for holding a ticket strip in the form of a flat stack at a substantial angle with respect to horizontal.

13. A dispensing installation as in Claim 10 in which said drive module includes a helical separator member spanning a plurality of different channels of said dispenser, and including a drive motor for selectively rotating said separator member to separate at least one ticket from any of said ticket strips, said drive module including means for moving each of said strips past said separator member, and for moving separated tickets out of said housing, and including electronic control means for inputting ticket selection and ticket quantity information into said drive module to cause said dispenser to dispense a selected number of tickets of one or more types from said dispenser.

14. A dispensing installation as in Claim 13 in which said electronic control means is selected from the group consisting of a point-of-sale terminal; a computer; and an on-line lottery terminal.

15. A ticket dispensing installation comprising, in combination, a ticket storage housing for storing a plurality of strips of tickets in said housing, said housing having side walls, a bottom wall secured to said side walls, and an at least partially transparent cover, as well as a first side wall and an opposed second side wall, said cover having a substantially flat upper surface, said housing containing a powered dispensing mechanism for selectively dispensing tickets from said strips out of said housing, a check-out counter for a store, said ticket storage housing being mounted on said checkout counter with said flat upper surface accessible to customers while they are having their purchases checked out.

16. An apparatus as in Claim 15 in which said housing forms storage space for said tickets underneath said dispensing mechanism, with space for passage of said ticket strips upwardly to said dispensing mechanism with said strips being visible through said cover.

17. An apparatus as in Claim 15 in which said dispensing mechanism includes a powered separator mechanism for separating at least one ticket from one of said strips before dispensing said ticket.

18. An apparatus as in Claim 15 including electrical selection means for selecting tickets from at least one of said strips and causing a pre-determined number of said tickets to be dispensed.

19. An apparatus as in Claim 18 in which said selection means is selected from the group consisting of; a point-of-sale-terminal; a computer; and an on-line lottery terminal.

20. A ticket dispensing display unit, said dispensing display unit comprising a rack with a plurality of shelves, a plurality of dispensers on said shelves, each of dispensers having a low flat-topped housing, a rear side wall and a front side wall, a powered dispensing mechanism, and a transparent cover forming a curved rear side wall for said housing, said shelves being spaced apart vertically from one another, the rear side wall of each of said dispensers being laterally offset from the rear side wall of the dispenser below it so as to minimize the area each of said dispensers which is visible to a person looking at said rear side-walls of said dispenser housings.

21. A unit display as in Claim 20 in which each of said housings has a height and a length from said rear side wall to said front side wall, in which said length is much greater than said height, and in which said length of said housings decreases as the vertical position of said housing goes higher, each of said housings comprising two halves joined together along a vertical line adjacent the inlet said of said drive module, and at least one housing extension element having bottom, top and side walls secured between said housing halves.

22. A display unit as in Claim 20 in which each of said powered dispensing mechanisms includes a separator mechanism for separating tickets from strips of tickets delineated from one another by lines of weakness and issuing said tickets through outlets in said front side wall, said housing providing space for storing and displaying multiple strips of tickets through said cover.

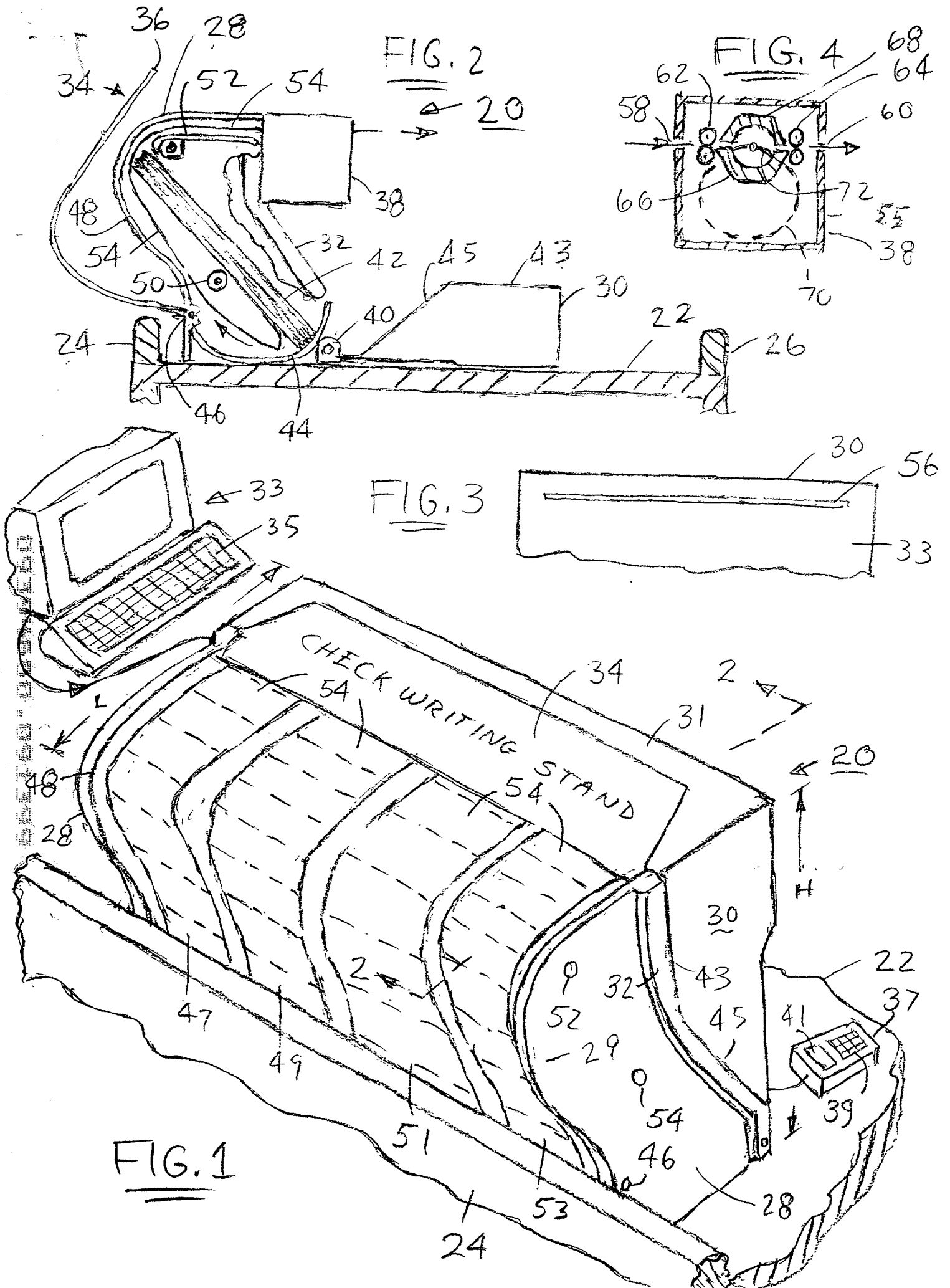
23. A display unit as in Claim 20 in which each of said housings has a bottom wall and pair of side walls secured to said bottom walls, said cover being hinged to said bottom wall to move away from said housing to permit access to the interior of the housing, said front side wall being hinged to said bottom wall to allow access to the area in said housing adjacent said front wall.

24. A display unit as in Claim 20 in which each of said housing has a guide roller near said rear side wall, a plurality of vertical dividers extending between said rear and adjacent said front side walls, said powered dispensing mechanism being located between said dividers and said front side wall in each housing.

25. A display unit as in Claim 20 in which said powered dispensing mechanism comprises a module with an enclosure, a drive motor and rollers in said enclosure and a separator member and drive means for driving said separator member.

## **ABSTRACT OF THE DISCLOSURE**

Lottery ticket dispensing housings are provided with a hinged, transparent rear and top cover, a hinged front wall, and a powered ticket drive and separator module. A relatively tall embodiment of the dispenser with a small footprint is fitted onto the countertop of a check-out counter of a retail store. The top of the housing is flat so as to provide a convenient place for customers to write checks with the tickets being displayed immediately below being highly visible to the customer. A display of relatively flat and short dispensers is provided wherein a rack or housing supports the dispensers one on top of the other in a vertical array. In such a rack or housing the units are connected together electrically in a daisy-chain manner and one control device (point-of-sale terminal, computer or on-line terminal) operates all connected dispensers. The dispensers are shifted laterally with respect to one another so as to give greater viewability of the contents of each of the dispensers to a customer. The length of each dispenser can be decreased with the increasing elevation of the dispenser so as to provide a vertical alignment of the front sides of the dispensers, the side through which tickets are dispensed. A ticket drive and dispensing module is provided which will fit into any of the housings with a minimum of mounting effort or hardware. This relatively flat and short dispenser can also be mounted vertically on a wall or a stand to provide additional convenient installation operations. In such case multiple units are to be daisy-chained together as described above and one control device operates the connected dispensers.





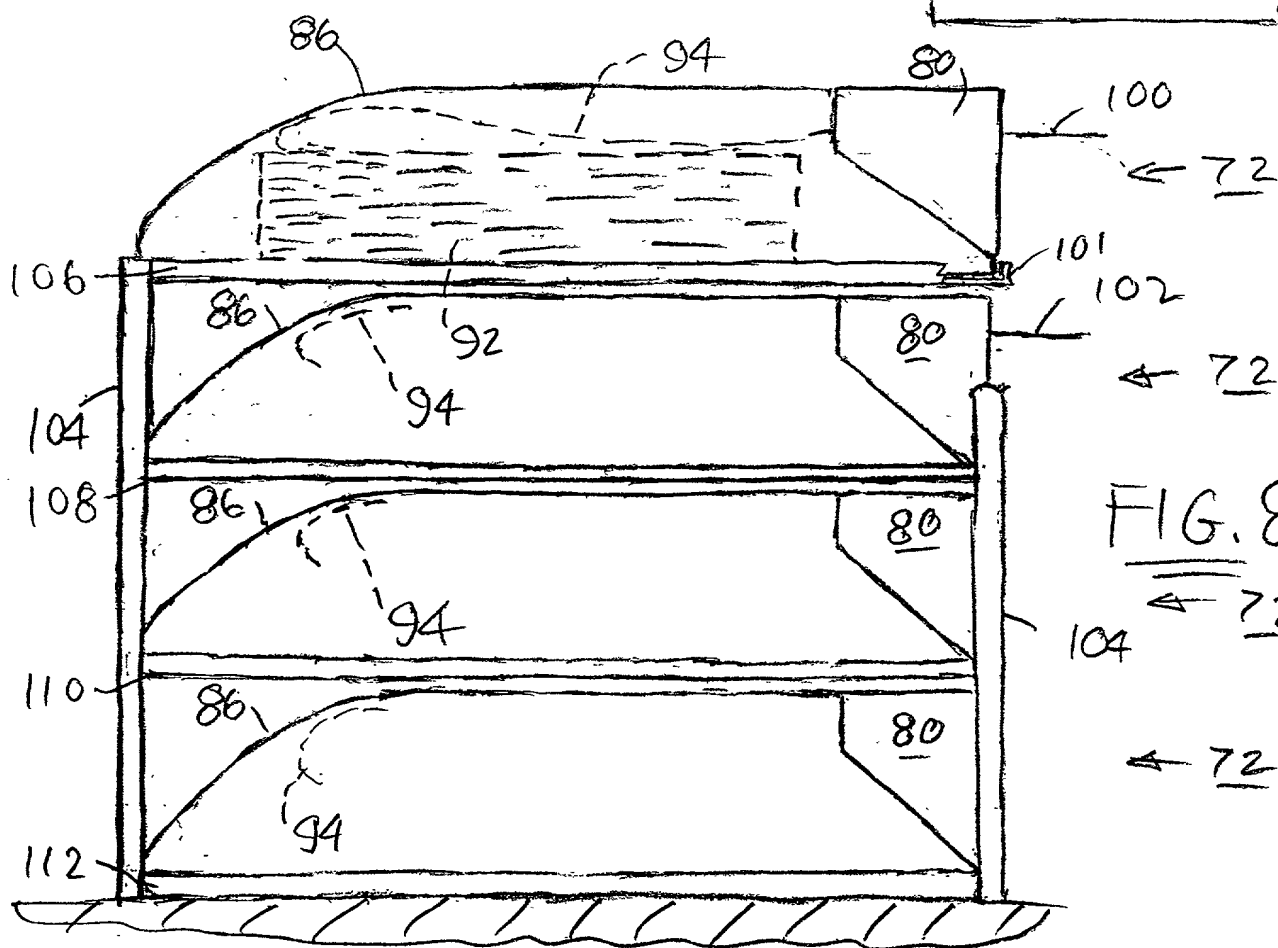
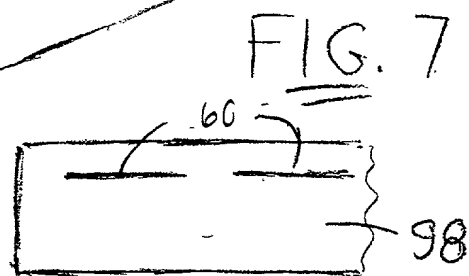
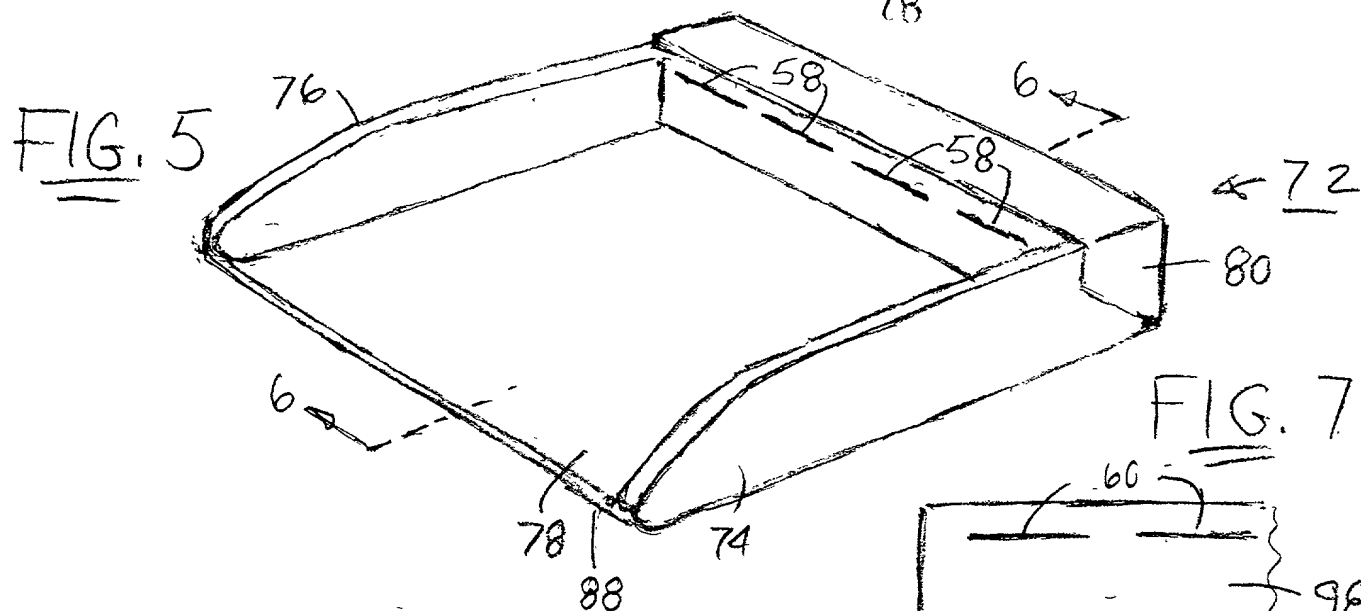
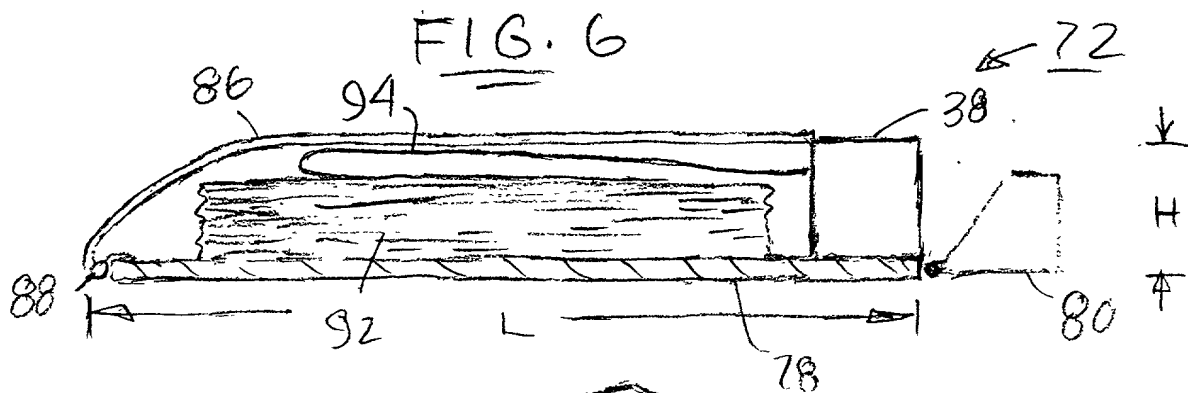


FIG. 9

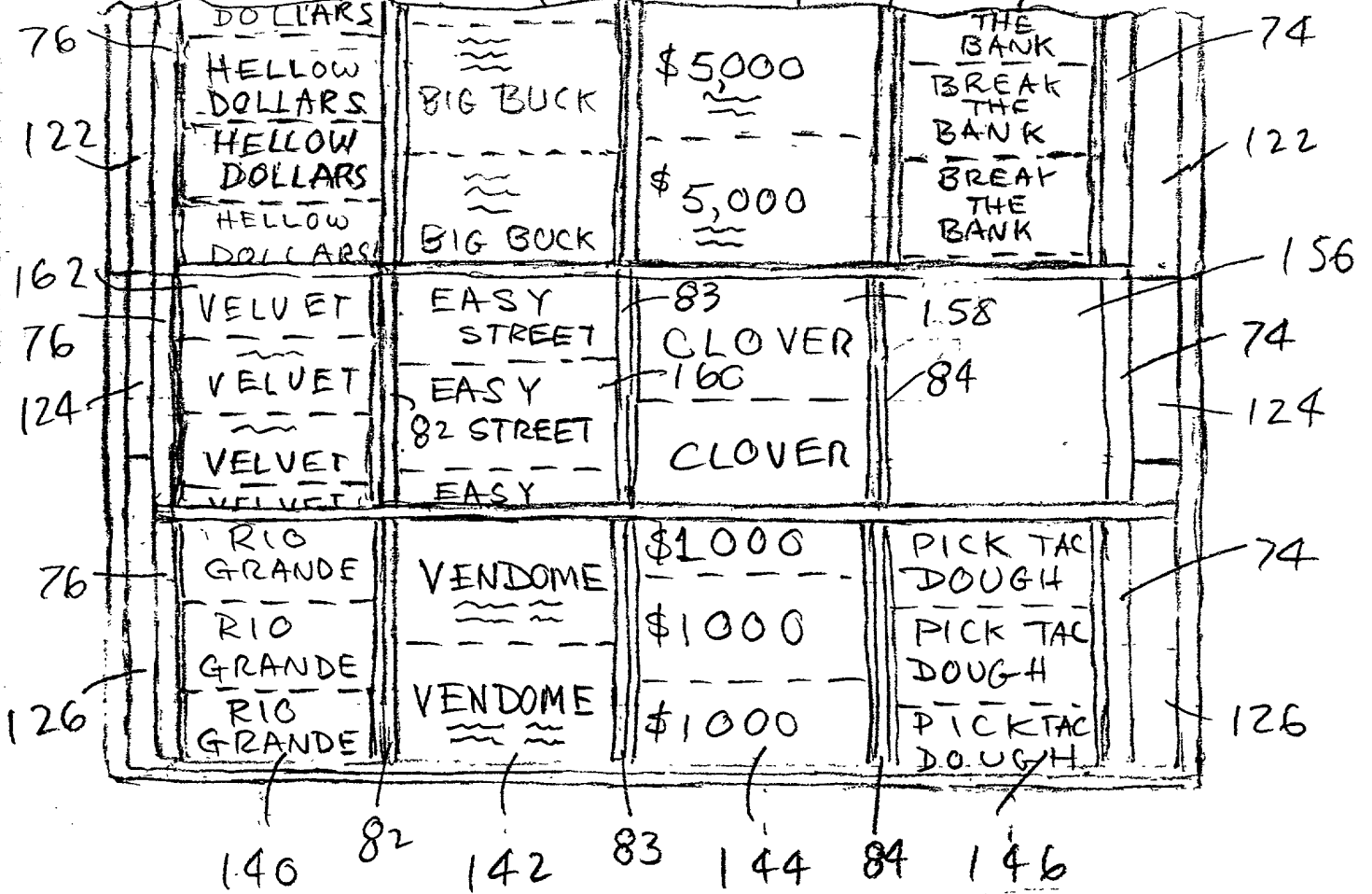
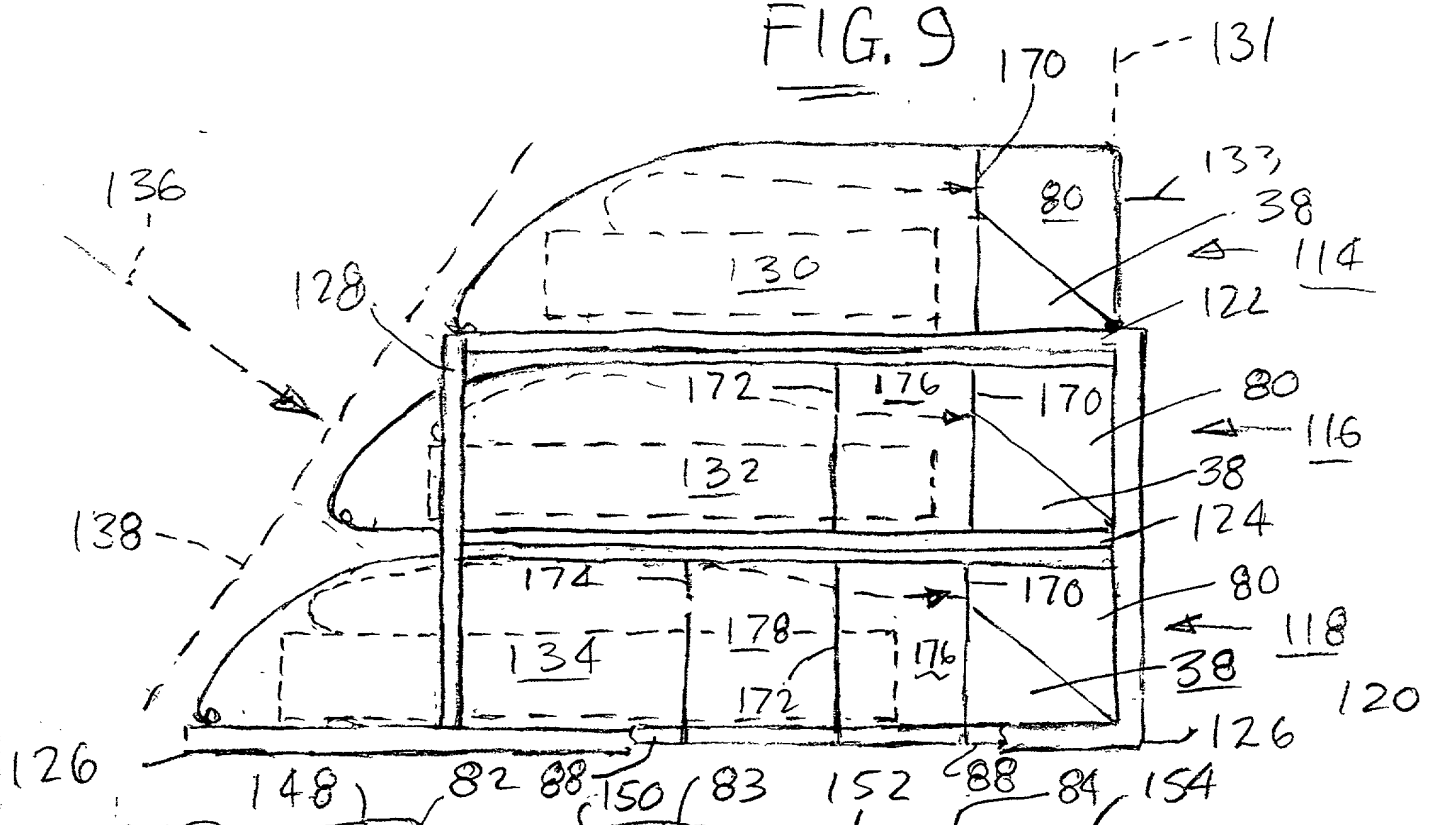


FIG. 10

**DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY**

(Under 37 CFR § 1.63, includes reference to PCT International Applications)

WHITMAN BREED & ABBOTT LLP

File No.: 3345-2210

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: TICKET DISPENSING DEVICE, INSTALLATION AND DISPLAYS the specification of which X is attached hereto    was filed on    as    United States    PCT Application No.   , with amendments through    (if applicable, give details).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT International application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT International applications designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) on which priority is claimed:

Prior Foreign/PCT Application(s) [list additional applications on separate page]:

Country (or PCT)

Application Number:

Filed (Day/Month/Year)

Priority Claimed:

Yes      No

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I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as

defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Prior U.S. (or U.S.-designating PCT) Application(s)

[list additional applications on separate page]:

U.S. Serial No.: Filed (Day/Month/Year) PCT Application No. Status (patented, pending, abandoned)

09/060,423                      04/14/98  
09/128,406                      08/03/98  
09/238,682                      01/26/99

Pending

I hereby appoint Gregor N. Neff, Esq., Registration No. 20,596, and Whitman Abbott & Breed LLP, or their duly appointed associate, my attorneys, with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to file continuation and divisional applications thereof, to receive the Patent, and to transact all business in the Patent and Trademark Office and in the Courts in connection therewith, and specify that all communications about the application are to be directed to the following correspondence address:

Gregor N. Neff, Esq.  
c/o WHITMAN BREED ABBOTT &  
MORGAN LLP  
200 Park Avenue  
New York, NY 10166

Direct all telephone calls to: (212) 451-  
3030  
to the attention of:  
Gregor N. Neff, Esq.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

INVENTOR(S):

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Date: 9/8/99

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Signature: David B. Petch

Date: 9/8/99

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Residence: 5425 Calumet Drive, La Jolla, 92037

Citizenship: United States

Signature: David B. Petch

Date: 9/8/99

NOTE In order to qualify for reduced fees available to Small Entities, each inventor and any other individual or entity having rights to the invention must also sign an appropriate separate "Verified Statement (Declaration) Claiming [or Supporting a Claim by Another for] Small Entity Status" form [e g for Independent Inventor, Small Business Concern, Nonprofit Organization, Individual Non-Inventor]